

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	0	tangential with crossflow	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2005/06/23 14:59
L2	62	tangential with crossflow	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2005/06/23 14:59
L3	28	tangential with crossflow and ultrafiltration	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2005/06/23 15:35
L4	1	tangential with crossflow same ultrafiltration	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2005/06/23 15:06
L5	25	tangential with crossflow and ultrafiltration and separation	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2005/06/23 15:19
L6	0	tangential with crossflow and ultrafiltration and separation and 530/417.ccls	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2005/06/23 15:20
L7	1	tangential with crossflow and ultrafiltration and separation and 530/417.ccls.	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2005/06/23 15:21
L8	1	tangential with crossflow and ultrafiltration and 530/417.ccls.	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2005/06/23 15:24
L9	1	tangential with crossflow and ultrafiltration and 530/412.ccls.	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2005/06/23 15:22
L10	1	tangential with crossflow and ultrafiltration and 210/637.ccls.	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2005/06/23 15:22
L11	0	tangential with crossflow and ultrafiltration and 210/109.ccls.	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2005/06/23 15:24
L12	2	"5256294".pn.	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2005/06/23 15:24

L13	12	tangential with crossflow and ultrafiltration and "210"/\$.ccls.	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2005/06/23 15:25
L14	2	tangential with crossflow and ultrafiltration and feedstream	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2005/06/23 15:36
L15	0	tangential with crossflow and ultrafiltration and efflux	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2005/06/23 15:36
L16	11	tangential with crossflow and ultrafiltration and flux	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2005/06/23 15:36

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75 FILES IN THE FILE LIST IN STNINDEX

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2 FILES HAVE ONE OR MORE ANSWERS, 75 FILES SEARCHED IN STNINDEX

L1 QUE TANGENTIAL AND CROSSFLOW AND ULTRAFILTRATION AND FEEDSTREAM

=> tangential and crossflow and ultrafiltration

2 FILE AGRICOLA

4 FILE AQUALINE

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1 FILE BIOENG

2 FILE BIOSIS

1 FILE BIOTECHABS

1 FILE BIOTECHDS

1 FILE BIOTECHNO

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47 FILES SEARCHED...

1 FILE LIFESCI

2 FILE MEDLINE

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19 FILE SCISEARCH

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71 FILE USPATFULL

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25 FILES HAVE ONE OR MORE ANSWERS, 75 FILES SEARCHED IN STNINDEX

L2 QUE TANGENTIAL AND CROSSFLOW AND ULTRAFILTRATION

=> d rank

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2.95	3.79

FULL ESTIMATED COST

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=> tangential and crossflow and ultrafiltration

L3 72 TANGENTIAL AND CROSSFLOW AND ULTRAFILTRATION

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PROCESSING COMPLETED FOR L3

L4 67 DUP REMOVE L3 (5 DUPLICATES REMOVED)

=> tangential and crossflow and ultrafiltration and flux

L5 46 TANGENTIAL AND CROSSFLOW AND ULTRAFILTRATION AND FLUX

=> tangential and crossflow and ultrafiltration and flux and transition and point

L6 0 TANGENTIAL AND CROSSFLOW AND ULTRAFILTRATION AND FLUX AND TRANSI

TION AND POINT

=> tangential and crossflow and ultrafiltration and flux

L7 46 TANGENTIAL AND CROSSFLOW AND ULTRAFILTRATION AND FLUX

=> d ti 1-46

L7 ANSWER 1 OF 46 PASCAL COPYRIGHT 2005 INIST-CNRS. ALL RIGHTS RESERVED.
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TIEN Pilot plant study of an **ultrafiltration** membrane system for
drinking water treatment operated in the feed-and-bleed mode

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on STN

TIEN Application of micro/**ultrafiltration** to wine clarification

TIFR Integration des membranes dans les procedes, 2 : Montpellier, 14-16 mai
2003

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TIEN New porous ceramics for **tangential** filtration
International conference on inorganic membranes, ICIM-6, Montpellier,
France, 26-30 June 2000

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TIEN Modeling of fouling in three **ultrafiltration** cell
configurations: Swirl, plane and axial annular

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on STN

TIEN Retention of PVA (polyvinyl alcohol) by **tangential
ultrafiltration**
Separations : Montpellier, 5-7 October 1999

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on STN

TIEN Relation between end use separation properties and substrate
characteristics for new proteinic membranes
Product engineering & chemical engineering now : Montpellier, 5-7 October
1999

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TIEN White wine clarification by micro/**ultrafiltration** : effect of
removed colloids in tartaric stability

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TIEN Influence of membrane-solution interface on the selectivity of SnO₂
ultrafiltration membranes

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TIEN Comparison of two flow types (**crossflow** and swirling) in
ultrafiltration modules. Effect of wall shear stress

TIFR Comparaison de deux types d'écoulements (tangential plan et
tourbillonnaire) dans des modules d'**ultrafiltration**. Influence
de la contrainte parietale

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TIEN High-performance **tangential** flow filtration using charged

membranes

- L7 ANSWER 11 OF 46 PASCAL COPYRIGHT 2005 INIST-CNRS. ALL RIGHTS RESERVED.
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TIEN Inorganic membrane selectivity to ions in relation with streaming potential
- L7 ANSWER 12 OF 46 PASCAL COPYRIGHT 2005 INIST-CNRS. ALL RIGHTS RESERVED.
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TIEN Stamped ceramic porous tubes for **tangential** filtration
Euromembrane '97
- L7 ANSWER 13 OF 46 PASCAL COPYRIGHT 2005 INIST-CNRS. ALL RIGHTS RESERVED.
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TIEN Modification of clay cake permeability by adsorption of protein
- L7 ANSWER 14 OF 46 PASCAL COPYRIGHT 2005 INIST-CNRS. ALL RIGHTS RESERVED.
on STN
TIEN Newly-designed proteinic membrane for low **ultrafiltration**
- L7 ANSWER 15 OF 46 PASCAL COPYRIGHT 2005 INIST-CNRS. ALL RIGHTS RESERVED.
on STN
TIEN **Flux** enhancement by a continuous **tangential** gas flow
in **ultrafiltration** hollow fibres for drinking water production
: Effects of slug flow on cake structure
TIFR Augmentation du **flux** par un courant gazeux tangentiel dans des
fibres creuses d'**ultrafiltration** pour la production d'eau
potable: effet des bulles sur la structure du gateau
- L7 ANSWER 16 OF 46 PASCAL COPYRIGHT 2005 INIST-CNRS. ALL RIGHTS RESERVED.
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TIEN High Performance **tangential** flow filtration
- L7 ANSWER 17 OF 46 PASCAL COPYRIGHT 2005 INIST-CNRS. ALL RIGHTS RESERVED.
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TIEN Optimization diagram for membrane separations
- L7 ANSWER 18 OF 46 PASCAL COPYRIGHT 2005 INIST-CNRS. ALL RIGHTS RESERVED.
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TIEN Mechanisms of protein fouling in cross-flow UF through an asymmetric
inorganic membrane
- L7 ANSWER 19 OF 46 PASCAL COPYRIGHT 2005 INIST-CNRS. ALL RIGHTS RESERVED.
on STN
TIEN Fouling in **tangential**-flow **ultrafiltration** : the
effect of colloid size and coagulation pretreatment
- L7 ANSWER 20 OF 46 CEABA-VTB COPYRIGHT 2005 DECHEMA on STN
TI Comparison of two types of flow (**tangential** and turbulent) in
ultrafiltration modules. Influence of wall effects
Vergleich zweier Stroemungsarten in Ultrafiltrationsmodulen: Einfluss von
Wandeffekten
- L7 ANSWER 21 OF 46 CEABA-VTB COPYRIGHT 2005 DECHEMA on STN
TI Microfiltration of Streptomyces rimosus: cell harvesting process studies
Mikrofiltration von Streptomyces rimosus: Prozessstudie zur Zellernte
- L7 ANSWER 22 OF 46 CEABA-VTB COPYRIGHT 2005 DECHEMA on STN
TI Evaluation of **crossflow** microfiltration membranes using a
rotary disc-filter
- L7 ANSWER 23 OF 46 CEABA-VTB COPYRIGHT 2005 DECHEMA on STN
TI Cell harvesting by cross-flow microfiltration using a shear-enhanced

module

- L7 ANSWER 24 OF 46 CEABA-VTB COPYRIGHT 2005 DECHEMA on STN
TI On the relation between filtrate **flux** and particle concentration in batch **crossflow** microfiltration
Berechnungen zum Zusammenhang zwischen Filtratfluss und Konzentration bei der Querstrom-Mikrofiltration
- L7 ANSWER 25 OF 46 CEABA-VTB COPYRIGHT 2005 DECHEMA on STN
TI Membrane fouling during constant **flux crossflow** microfiltration of dilute suspensions of active dry yeast
Membranfouling waehrend der Querstrom-Mikrofiltration von verdueennten Suspensionen aktiver Hefe bei konstantem Fluss
- L7 ANSWER 26 OF 46 CEABA-VTB COPYRIGHT 2005 DECHEMA on STN
TI Retention of proteins in cross-flow UF through asymmetric inorganic membranes
Proteinrueckhaltung bei der Kreuzstrom-**Ultrafiltration** durch asymmetrische, anorganische Membranen
- L7 ANSWER 27 OF 46 CEABA-VTB COPYRIGHT 2005 DECHEMA on STN
TI Use of rotating filter to enhance ceramic membrane filtration performance of latex dispersions
Rotierender Filterzylinder fuer erhoehten Durchsatz bei der Filtration von Latexdispersionen ueber Keramikmembranen
- L7 ANSWER 28 OF 46 CEABA-VTB COPYRIGHT 2005 DECHEMA on STN
TI A novel rig design for ultra- and microfiltration experiments
- L7 ANSWER 29 OF 46 CEABA-VTB COPYRIGHT 2005 DECHEMA on STN
TI **Flux** limiting factors in **crossflow ultrafiltration** of invertase through an asymmetric inorganic membrane
- L7 ANSWER 30 OF 46 CEABA-VTB COPYRIGHT 2005 DECHEMA on STN
TI Set realistic goals for cross-flow filtration
Betrachtungen zur Kreuzstromfiltration
- L7 ANSWER 31 OF 46 CEABA-VTB COPYRIGHT 2005 DECHEMA on STN
TI Filtration special report
Filtrationsspezialbericht
- L7 ANSWER 32 OF 46 CEABA-VTB COPYRIGHT 2005 DECHEMA on STN
TI Hydrodynamic model and experiments for **crossflow** microfiltration
Berechnungsmodell und Experimente zur Kreuzstrom-Mikrofiltration
- L7 ANSWER 33 OF 46 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on STN
TI Effects of reverse osmosis isolation on reactivity of naturally occurring dissolved organic matter in physicochemical processes
- L7 ANSWER 34 OF 46 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on STN
TI Studies on the interaction of fermentation and microfiltration operations: Erythromycin recovery from Saccharopolyspora erythraea fermentation broths
- L7 ANSWER 35 OF 46 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on STN
TI Comparison of two types of flows (**crossflow** and swirling flow) in **ultrafiltration** modules - Influence of the wall constraint
- L7 ANSWER 36 OF 46 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on

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TI The effect of oscillatory flow on **crossflow** microfiltration of beer in a tubular mineral membrane system - Membrane fouling resistance decrease and energetic considerations

L7 ANSWER 37 OF 46 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on STN

TI Stamped ceramic porous tubes for **tangential** filtration

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TI **Crossflow** microfiltration of a colloidal suspension with the presence of macromolecules

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TI Concentration of bovine serum albumin aqueous solutions by membrane distillation

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TI **Crossflow** microfiltration of recombinant Escherichia coli lysates after high pressure homogenization

L7 ANSWER 41 OF 46 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on STN

TI **Crossflow** microfiltration of oily water

L7 ANSWER 42 OF 46 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on STN

TI PERFORMANCE OF WHEY CROSS-FLOW MICROFILTRATION DURING TRANSIENT AND STATIONARY OPERATING-CONDITIONS

L7 ANSWER 43 OF 46 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on STN

TI MEMBRANE FOULING DURING CONSTANT **FLUX** CROSS-FLOW MICROFILTRATION OF DILUTE SUSPENSIONS OF ACTIVE DRY YEAST

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TI USE OF A ROTATING FILTER TO ENHANCE CERAMIC MEMBRANE FILTRATION PERFORMANCE OF LATEX DISPERSIONS

L7 ANSWER 45 OF 46 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on STN

TI A NOVEL RIG DESIGN FOR **ULTRAFILTRATION** AND MICROFILTRATION EXPERIMENTS

L7 ANSWER 46 OF 46 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on STN

TI MODELING OF FOULING OF CROSS-FLOW MICROFILTRATION MEMBRANES

=> tangential and crossflow and ultrafiltration and flux and milk

L8 0 TANGENTIAL AND CROSSFLOW AND ULTRAFILTRATION AND FLUX AND MILK

=> file caplus

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E6	2	COUTO DE CASTRO RENATO ALMEIDA/AU
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E8	1	COUTO DOS SANTOS MARCOS/AU
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E10	4	COUTO E/AU
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E23	1	COUTO F J D O/AU
E24	1	COUTO F O/AU
E25	1	COUTO FABIO DAVID/AU

=> S (E3)

L9 2 ("COUTO DANIEL"/AU)

=> d ti 1-2

L9 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN

TI A predictive aggregate transport model for microfiltration of combined macromolecular solutions and poly-disperse suspensions: Testing model with transgenic goat milk

L9 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN

TI Recovery of human monoclonal antibodies from transgenic goat milk

=> d ab bib 1-2

L9 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN

AB To meet the tech. challenge of recovering human IgG fusion protein from transgenic whole goat milk at reasonable cost with high purity and yield, a predictive aggregate transport model for microfiltration has been developed (Baruah and Belfort, 2003). Here, to test the model's predictability of permeate flux and mass transport, a comprehensive series of expts. with varying wall shear rate, feed temperature, feed concentration,

and

module design are presented. A very good fit was obtained between the model predictions and measurements for a wide variety of exptl. conditions. For microfiltration module design comparison, a linear hollow fiber module (representing current com. technologies) gave lower permeation flux and higher yield than a helical hollow fiber module (representing the latest self-cleaning methodol.). These results are easily explained with the model that is now being used to define operating conditions for maximizing performance. The procedure described by the model is generalizable and can be used to obtain optimal filtration performance for applications other than milk.

AN 2003:693187 CAPLUS

DN 139:337107

TI A predictive aggregate transport model for microfiltration of combined macromolecular solutions and poly-disperse suspensions: Testing model with transgenic goat milk

AU Baruah, Gautam Lal; Couto, Daniel; Belfort, Georges

CS Howard P. Isermann Department of Chemical Engineering, Rensselaer Polytechnic Institute, Troy, NY, 12180, USA

SO Biotechnology Progress (2003), 19(5), 1533-1540

CODEN: BIPRET; ISSN: 8756-7938

PB American Chemical Society

DT Journal

LA English

RE.CNT 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN

AB Recombinant proteins are produced transgenically by inserting a specific DNA sequence into the genetic material of an animal embryo that directs the production of a desired protein in the milk of transgenic offspring. In the case of complex proteins, such as glycosylated Ig fusion proteins, transgenic production is a technol. and an economically attractive method of com. production. An important challenge involves the recovery of the desired protein from whole milk at reasonable cost and with high purity and yield. In this study, we describe the use of microfiltration for the recovery of human monoclonal antibodies (hIgG) from transgenic goat milk. The performance (permeation flux and hIgG mass transport) of a linear (representing current com.) and a helical (representing the latest self cleaning) hollow fiber membrane module containing similar 0.1 mm pore size poly(ether sulfone) membranes were compared. The goals of the study are to derive a fundamental, quant. understanding of the filtration process with highly complex transgenic whole goat milk and to obtain the optimal operating conditions in diafiltration mode for hIgG recovery. Expts. were carried out in three phases to yield hydraulic permeability, flux, mass transfer coeffs., C wall, protein sieving coeffs. and hIgG sieving coeffs. for both modules. In addition, a sensitivity anal. with respect to fat and casein was conducted. The helical module exhibited 70% higher permeation flux in comparison with the linear module. Exptl. obtained values were then incorporated into a heuristic, interactive computer program based on the gel polarization model and mass balances in finite difference form. The program can be generalized to predict diafiltration performance of different combinations of microfiltration/ultrafiltration systems, target proteins and fluids. This could be very useful for system-design and

scale-up of the microfiltration/ultrafiltration processes.

AN 2002:614036 CAPLUS

TI Recovery of human monoclonal antibodies from transgenic goat milk

AU Baruah, Gautam lal; Couto, Daniel; Belfort, Georges

CS Howard Isermann Department of Chemical Engineering, Rensselaer Polytechnic
Institute, Troy, NY, 12180, USA

SO Abstracts of Papers, 224th ACS National Meeting, Boston, MA, United
States, August 18-22, 2002 (2002), BIOT-079 Publisher: American Chemical
Society, Washington, D. C.

CODEN: 69CZPZ

DT Conference; Meeting Abstract

LA English